No.



8700138

HEE UNIVERD STAYIES OF AMIERICA

TO ALL TO WHOM THESE: PRESEMES SHALL COME:

The Ohio State University Research Foundation

Withereus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, porting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act. Wited States seed of this variety (1) shall be sold by variety name only as certified seed and (2) shall conform to the number of generations the owner of the rights. (84 Stat. 1542, as amended, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'GR860'

In Testimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, v. c. this 31st day of March in the year of our Lord one thousand nine

hundred and eighty-nine.

Secretary of Agriculture

Aller

Lengell HEars Commissioner

Plant Variety Protection Office

Agricultural Marketing Gervice

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APPLICATION FOR PLANT VAR	is on reverse)	TON CENTIFICATE	held confidential until	+ 103
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Research and Development Cente	r	0H260	GR86	
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Agronomy Department				
Ohio State University, Ohio Ag	ricultural R	esearch & Developme	ent Center	
Wooster, OH, 44691		PHONE (Include a	rea code): 216-26	3-3886
14. CHECK APPROPRIATE BOX FOR EACH ATTA				
a. LX Exhibit A, Origin and Breeding History of	the Variety (See Se	ction 52 of the Plant Variety Pr	otection Act.)	
b. Exhibit B, Novelty Statement.		*,		
c. X Exhibit C, Objective Description of Variet		m Plant Variety Protection Off	ice.)	
d. X Exhibit D, Additional Description of Vari	- 4			
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Exhibit A

Origin and Breeding History of the Variety

- 1. GR 860 (previously designated OH 260) originated at The Ohio State University, Ohio Agricultural Research and Development Center from the four way cross: C517/Logan//MoW8184/Va 66-54-10. The final cross was made in 1973 and designated 14273. GR 860 was first selected in 1976 as an ${\rm F_3}$ plant and designated 14273-6. It was reselected in 1981 in the ${\rm F_8}$ generation as described below.
- 2. Breeder seed of GR 860 consists of the progeny of 60 F₈ plants selected for uniformity in 1981 through 1984 and bulked following 1984 harvest to constitute Breeder seed. Breeder seed was seeded in fall, 1984. Foundation generation seed was produced in the 1985-86 crop season with the first distribution of Foundation generation seed made in the fall, 1986 to producers of the Certified class of seed (only two generations are allowed beyond Breeder seed.)
- 3. GR 860 appears to be very uniform and homozygous as observed in the field over the past six seasons. This would be expected in the progeny of phenotypically identical plants selected in the F_8 and reexamined for uniformity in the F_9 through F_{11} generations. (Originally 365 F_8 plants were selected as being identical, however, continued observation for uniformity in the F_9 through F_{11} generations resulted in the progeny of only 60 of these being bulked after harvest of the F_{11} generation in 1984.)
- 4. GR 860 appears to be very stable and true breeding as evidenced by agronomic and pathological examination of the F₈ through F₁₁ generations in special purification and increase nurseries.
- 5. Variants observed during the development of the variety were few in number and of various, non-repeating types. In the 1986 Foundation generation production fields some off-types were observed including talls with awns or awnlets and normal height plants with awns or awnlets. The total of all types did not exceed .3%.

Roguing of all observed off-types was performed four times in the Breeder seed increase of 1984-85 and three times in the Foundation generation increase of 1985-86.

Criteria for selection during the multiplication and purification process in the F_9 through F_{11} generations allowed no variance from complete uniformity. If one off-type plant was observed in a 10' row, that plant was either rogued or the entire row dropped from further increase. If two or more off-type plants were observed within a row, the row was eliminated from further increase.

6. The variety was selected primarily as a special purpose variety for use in relay and double cropping systems. While yields of the variety are competitive with most other varieties in production in Ohio, its extreme earliness and extreme straw strength were the primary factors of consideration in the release decision. Additionally, selection for all other important agronomic, pathologic, and quality traits was exercised. The variety was tested in comparison to popular varieties in Ohio, namely, Becker, Hart, Titan, and Tyler.

Exhibit B (Revised)

Novelty Statement and Botanical Description of the Variety

GR 860 is an awnless cultivar of soft red winter wheat with very short apical awnlets. It is extremely early in maturity and is a very short cultivar averaging 2.5 cm shorter then Adena, 15 cm shorter than Hart and Titan and 18 cm shorter than Tyler. GR 860 has exhibited excellent straw strength in Ohio and region-wide tests, exceeding all currently grown cultivars in straw strength. Winterhardiness of GR 860 is satisfactory, averaging 90% survival in 22 tests in Ohio over a 5-year period.

Test weight of GR 860 is high, averaging only .4 lb/bu below that of Hart, the highest test weight variety currently grown in Ohio. The yield record of GR 860 is competitive with other currently grown varieties, but is not exceptional.

The USDA Soft Wheat Quality Laboratory, Wooster, Ohio, in evaluations of samples of GR 860 over the past three years has found it to possess exceptionally good quality as a soft red winter wheat.

GR 860 possesses excellent field resistance to both leaf rust (<u>Puccinia rcondita</u>) and powdery mildew (<u>Erysiphe graminis</u>). It is also very resistant to wheat spindle streak mosaic virus (WSSM). GR 860 also possesses resistance to races GP, A, C, and F races of Hessian fly (<u>Mayetoila destructor</u>, Say) imparted by the $\rm H_3$ gene.

GR 860 most closely resembles the variety Adena, but possesses several distinguishing characteristics compared to Adena. Foliage color of GR 860 at booting is medium green while that of Adena is distinctly blue-green. Auricles and anthers of Adena often exhibit anthocyanin pigmentation while none has been observed in GR 860. These two varieties also differ considerably in heading date with GR 860 normally heading about 4 days earlier than Adena (see Table 3, "Comparative performance of OH 260 and currently grown varieties in drill plot trials, Ohio, 1981-1985"). In addition, tip awns of the apically awnletted Adena are normally 2-3 cm in length while those of GR 860 are very short, being normally less than 5 mm in length. Hairs are often found on the auricles of Adena, while being absent on the auricles of GR 860. Phenol reaction of Adena is fawn while that of GR 860 is black.

Table 1. Comparative yields of OH 260 and currently grown varieties in drilled plot trials by years, Ohio.

Line or Variety	1981 3 tests	1982 3 tests	1983 7 tests	1984 6 tests	1985 6 tests	Avg. 22 tests	Avg. 25 tests
Adena	55.9	63.1	58.1	57.7	76.4	63.7	62.7
Becker	57.3	66.3	63.5	56.5	83.3	67.4	66.2
Cardinal	60.6	64.9	64.3	63.5	84.0	69.5	68.5
GR855	54.9	66.7	61.9	56.5	77.4	65.3	64.1
Hart	56.4	68.9	57.7	55.3	78.31	64.2	63.3
Titan	58.0	62.3	60.1	51.3	77.9	62.9	62.3
Tyler		70.2	64.2	57.5	75.3	66.2	_
OH 256	54.1	68.0	60.3	58.0	85.2	67.5	65.9
ОН 260	- -	56.8	57.6	42.2	75.7	58.2	
Arthur	48.3	61.8	_	_	<u> </u>		_
Caldwell	58.6	60.9	-	• • • • • • • • • • • • • • • • • • •	_		-

¹ No 1985 data. Adjusted avg.'s based on relative performance in remaining years.

Table 2. Comparative yields of OH 260 and currently grown varieties in drilled plot trials by locations, Ohio.

Line or Variety	OARDC 1982-85	N.W. Br. 1982-85	W. Br. 1982-85	Mah. Co. 1983-85	S. Br. 1983-85	0.F.S. 1983	Vg. Cr. Br. 1983-85	Avg. (22 tests)
Adena	64.3	80.6	48.9	50.4	55.8	51.9	85.0	63.7
Becker	70.6	79.6	51.1	59.6	60.3	50.1	89.2	67.4
Cardinal	71.8	86.2	51.0	58.1	62.5	53.9	92.8	69.6
GR855	71.8	79.7	43.2	57.1	56.2	48.2	90.0	65.3
Hart ¹	66.0	77.7	47.7	56.3	55.7	52.6	85.9	64.2
Titan	64.4	71.4	45.8	59.0	58.6	51.4	84.3	62.9
Tyler	72.3	81.5	47.8	53.7	54.0	57.6	89.8	66.2
ОН 256	68.9	82.1	49.8	59.8	58.9	50.3	92.0	67.5
ОН 260	63.4	63.3	42.2	53.0	48.9	46.9	84.3	58.2

¹ No 1985 data. Adjusted avg.'s based on relative performance in remaining years.

Table 3. Comparative performance of OH 260 and currently grown varieties in drill plot trials, Ohio, 1981-1985. (Average of 22 tests)

Line or Variety	Winter Sur	vival P	l. Height (in.)	Date Heade (May)	d Lodging (%)	Test Wt. (1b/bu)
Adena	97		32	25.2	6	58.2
Becker	95		31	26.5	· 1	56.9
Cardinal	97		36	26.9	• 2	58.4
GR 855	96		31	24.1	1	55.6
Hart ^l	96		37	25.1	2	58.9
Titan	92		37	29.1	11	57.8
Tyler	97		38	26.0	6	57.9
ОН 256	95		32	23.0	0	57.5
ОН 260	9 0		31 ·	20.9	0	58.5

¹ No 1985 data. Adjusted avg.'s based on relative performance in remaining years.

Table 4. Comparative insect, disease, aluminum tolerance, and quality ratings of OH 260 and currently grown varieties in miscellaneous Ohio tests.

					Al. tolera	nce		
Line or Variety	H.F. Res.	% Mildew 8 tests- 5 yrs.	WSSM ² 5 tests- 4 yrs.	Leaf Rust 6 tests- 3 yrs.	Yield ratio (% of Seneca) 3 yrs.	Visual score ³ 5 yrs.	Quality Milling	
	**							
Adena	G.P.	37	1	19 MR-MS	74	5	A+	A
Becker	A,C	73	1	5 MR	58	4	В	A-
Cardinal	A,C	39	1	O VR	98	4	A+	B+
GR 855	A,C	1	1	43 MS	82	5	C	В
Hart ¹	A,C	- 77	1	53 MS-S	40	7	C	D
Titan	A,C,	37	2	17 MR	71	4	C	D
Tyler	None	0	1	56 MS-S		4	A	. D
OH 256	A,C	2	2	10 R-MR	66	5	В	C
он 260	A,C	0	2	O VR	47	8	A+	A +

¹ No 1985 data. Adjusted avg.'s based on relative performance in remaining years.

 $^{2 0 = \}text{none to } 9 = \text{severe}$.

 $^{30 = \}text{very tolerant to } 9 = \text{very sensitive.}$

Results of state-wide drilled plot yield trials including Ohio advanced wheat lines, 1986. (In order by average yield in 6 tests.) Table 5.

	Avg. Test Wt. (1b/bu)	7 92	76.0		, Y	56.2	5.5	7.5	7. C. C.	י י י י י י	י י י	7 7 7	7 - 1	0.10	72.4	73.I	1 * 1	24.2		
	Leaf Rust2	es.	ZW Z	208	SWP.	1470	OVP.	100	8U8	3MG	0770	2/10	1 00	0 V D		ያ ስ ር የ	777	S MOZ		
	Avg. Lodg. %	4	~ <u>~</u>	2 .	}	ነ ሆ	ا	<u> </u>	۰, ۲	, 66	;	1 <u>~</u>	7	t 4	lu	ء د	1 c	7		
	Avg. Pl.Ht. (in.)	3.5	75	37	` ~	, v	26	, <u>v</u>	75	, œ	٠ -	76	† c	33	1 6	000	3 6	70		
	Avg. Date Headed (May)	21	19	19	19	<u>~</u>	2 <u>«</u>	19	17	22	7-	· · ·	0	17		\ <u>\</u> \) L			
	Survival (%)	96	97	93	9.6	76	95	92	9.6	95	76	5		96) (76	00	1		
	Avg. Yield 6 Tests	6.09	60.3	57.4	57.1	56.8	56.5	55.5	54.9	54.5	54.2	54.1	53.0	51.4	50.7	50.4	50.4	•		
	Southern Br. (Ripley)	43.4	35.0	32.9	37.6	42.9	33.7	39.9	43.8	26.9	46.4	34.4	33.6	28.5	30.4	33.2	30.9	\	3.6	
	Veg.Crops Br. (Fremont)	67.6	80.8	72.0	76.8	62.4	61.0	61.0	65.1	70.3	64.4	63.6	58.8	56.4	55.9	54.0	56.7		10.5	
Yield (bu/a)	Mahoning Co. Farm (Canfield)	55.8	51.5	56.0	38.1	47.2	41.4	43,5	43.0	48.9	38.8	41.0	39.7	38.2	37.9	38.1	39.2		5.3	
ľλ	Western Br.(S. (Cha'ston)	61.2	6.99	57.6	70.7	65.4	72.6	63.9	62.6	66.3	60.4	64.9	72.2	71.6	69.2	58.4	58.1		7.5	
	N.Western Br. (Custar)	78.0	72.3	67.5	0.99	68.3	73.3	70.9	66.3	62.8	63.9	69.4	64.1	66.2	63.0	69.8	63.5	•	7.3	
	OARDC (Wooster)	59.6	55.1	58.5	53.4	54.4	57.0	53.6	48.3	52.0	51.4	51.0	49.7	47.6	47.7	48.9	53.9		3.0	
	Entry	0Н 257	0Н 328	Tyler	O		OH 265	Cardinal	Hart	Titan	GR 860	~~				GR 863	OH 3081		5% L.S.D.	

 1 Denotes lines dropped from breeding program following 1986 season. 2 % - class (OARDC, Wooster, only).

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN AND SEED DIVISION BELTSVILLE, MARYLAND 20785 OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse. WHEAT (TRITIC	
NAME OF APPLICANT(S) Ohio State University, Ohio Ag	ricultural FOR OFFICIAL USE ONLY
Research and Development Center ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	PVPD NUMBER 700138
1680 Madison Ave.	VARIETY NAME OR TEMPORARY
Wooster, OH, 44691	DESIGNATION
	GR860
Place the appropriate number that describes the varietal character of Place a zero in first box (e.s. 0 8 9 or 0 9) when number is e	this variety in the boxes below. ther 99 or less or 9 or less.
1. KIND:	
I = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = PO	DLISH 6 = POULARD 7 = CLUB
2. TYPE,	- 1 2
1 = SPRING 2 = WINTER 3 = OTHER (Specity)	1 = SOFT 3 = OTHER (Specify) 2 = HARD
2 1 = WHITE 2 = RED 3 = OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:	
2 2 2 FIRST FLOWERING	2 6 LAST FLOWERING
4. MATURITY (50% Flowering):	
0 2 NO. OF DAYS EARLIER THAN	1 = ARTHUR 2 = SCOUT 3 = CHRIS
NO. OF DAYS LATER THAN	4 = LEMHI 5 = NUGAINES 6 = LEEDS
5. PLANT HEIGHT (From soil level to top of head):	
0 7 9 cm. High	
CM. TALLER THAN	
1 2 CM. SHORTER THAN	1 = ARTHUR 2 = SCOUT 3 = CHRIS
	4 = LEMHI 5 = NUGAINES 6 = LEEDS
	NTHER COLOR:
Z T = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN	1 = YELLOW 2 = PURPLE
, STEM:	
1 Anthocyanin: 1 = ABSENT 2 = PRESENT 2	Waxy bloom: 1 = ABSENT 2 = PRESENT
2 Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT	Internodes: 1 = HOLLOW 2 = SOLID
3 or 4 (some of each) NO. OF NODES (Originating from node above ground)	9 CM. INTERNODE LENGTH BETWEEN FLAG LEAF
AURICLES:	T NO CENT BELON
Anthocyanin: 1 = ABSENT 2 = PRESENT	Hairiness: = ABSENT 2 = PRESENT
LEAF:	
Flag leaf at 1 = ERECT 2 = RECURVED 2 1 South Stage: 3 = OTHER (Specify): 2	Flag leaf: 1 = NOT TWISTED 2 = TWISTED
1 Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT 2	Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
1 1 MM. LEAF WIDTH (First lost below flag lost) 2	0 CM. LEAF LENGTH (First leaf below flag loaf):

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described vallety

FORM LMGS 470-6 (6-82) (Reverse)

Exhibit D

Additional description of the variety

Heads of GR 860 are held erect at maturity and tend to be slightly brittle at full maturity under dry conditions such that breakage at a rachis node will often occur if one exerts leverage on the head. This trait does not appear to ever cause shattering or head losses in combining operations or under high wind conditions.

Stem diameter of GR 860 appears to exceed most other currently grown cultivars in Ohio and stems are extremely stiff. This is the first variety ever noted to exhibit root lodging instead of stalk lodging in rare instances where lodging has been observed.

Coleoptile color is reported as purple (Exhibit C, item 13), however, purpling is not intense nor does it involve the entire coleoptile.

Seedling anthocyanin is reported as absent (Exhibit C, item 14), however, traces of purpling are occasionally observed on seedling plants.

Quality Evaluation of GR 860 (Data taken from U.S.D.A. Soft Wheat Quality Laboratory Reports)

Soft wheat quality tests of composite grain samples of 13 lines and varieties grown at 6 locations in Ohio in 1985 revealed GR 860 (Oh 260) received a combined quality score of 88.4. Comparative scores for Adena, Becker, Titan, and Tyler were 88.9, 100, 81.7, and 82.1, respectively.

In evaluations of composite samples of 14 lines and varieties grown at 6 locations in Ohio in 1984, GR 860 (OH 260) received a combined quality score of 93.6 while Adena, Becker (OH 234), Hart, Tyler, and Titan were scored at 100, 85, 78.3, 70.5, and 60.9, respectively.

Tests of composite samples of 16 lines and varieties grown at 7 locations in Ohio in 1983, GR 860 (OH 260) received a combined quality score of 100.3 while Adena, Becker (OH 234), Hart, Titan, and Tyler received combined scores of 100, 92, 89.7, 85.7, and 79.9, respectively.

No 1986 quality data is yet available.

These and other tests reveal that the baking and milling quality of GR 860 is excellent as a soft red winter wheat.

(See attached Tables 1-3)

Wheat, milling, and flour analytical and baking data, and quality scores. Table 1. Drill plot entries from Wooster, Ohio, 1985 crop.

ADVANCED NURSERY EVALUATION

FOR SOFT WHEAT MILLING AND BAKING GUALITY

WOOSTER,	0110		er e v				. *					
STANDARD	= 85789, BECKER							÷				
					MICRO							
LAB	ENTRY	MILLING	BAKING	COMB.	TEST	SOFTNESS	FLOUR		FLOUR	MICRO	COOKIE	TOF
NO.	ENTRI	QUALITY	QUAL 1TY	QUALITY	WT	EQUIV.	YIELD	ASH	PROTEIN	AWRC	DIAMETER	SRAIN
		SCORE	SCORE	SCORE	KG/HL				1.00			
					till et en Little							
****	STANDARD	100 A	100 A	100 A	77.3	66.8	76.2	. 38	6.6	52.4	17.7	7
****	BENCHMARK_	88.7 D	95.1 B	88.7 D	78.6	61.4*	73.5*	. 35	7.9 *	52.9	18.2	7
788	ADENA	104 A	88.9 D	88.9 D	79	63.6	77.3	. 35	7.7 *	52.7	17.5	ã *
789	BECKER	100 A	100 A	100 A	77.4	66.8	76.2	. 36	6.8	52.4	17.7	7
790	CARDINAL	104.4 A	101.9 A	101.9 A	80.1	62.2*	78.2	. 33	7.3	51.6	18.0	6
791	TITAN	100 A	81.7 E	81.7 E	78.9	65.7	75.9	. 33	7.6 ±	53.8	17.2+	ò
792	TYLER	102.1 A	82.1 E	82.1 E	79.3	64	76.7	.33	7.3	52.9	17.1+	4*
793	OH 256	96.8 B	78.2 F	78.2 F	79.5	63.4	75.3*	.3	8.4 *	54.5+	17.4+	5
794	OH 257	101.8 A	71.5 F	71.5 F	80.5	61.2*	77	.32	8.4 *	55.8*	17.3*	6
795	OH 260	104.9 A	88.4 D	88.4 D	81.3	63 *	78	. 34	8.8 *	52.1	17.6	5
767	nu oco	99.5 B	96.3 B	96.3 B	79.7	68.2	75. 3 *	. 34	7.7 *	54 *	17.9	Ď
796 797	OH 262 OH 265	102.2 A	86.5 D	86.5 D	81	63.8	76.7	.33	8.1 *	54.4*	17.7	7
798	OH 285	104.3 A	92.9 C	92.9 C	80.5	61. 9*	78.4	. 33	8.5 +	52.2	17.8	7
7 9 9	OH 286	102.6 A	93.2 C	93.2 C	79.1	69	76.1	. 34	7.7 *	53.6	17.7	7
800	DH 308	96 P	84.8 E	84.8 E	80.6	64.8	75.4	. 4	³ 7.7 ★	53.8	17.4*	5
								'				
		BREAK										
LAB	ENTRY	FLOUR	EXT.	E.S. I.								
NO.	CMIKI	YIELD	LAIT	L.0.1.				1				
												• .
L.								100				e version de la company
***	STANDARD	40.4	76.1	8.2		•						
****	BENCHMARK	35. 8∗	75.6*	11.7*								14.
788	adena	37.7	79.1	6.6								
789	BECKER	40.4	78. 1	ē. 2								
790	CARDINAL	36.5 *	7 5 .9	5.7								
791	TITAN	39.5	77.8	8.6								
792	TYLER	38	78.5	7.6				1				
793	OH 256	37.5	77.3 *	5.4 +								
794	OH 257	35.7*	76.8	7.2						14.15		
795	DH 260	37.2*	79.7	5.9								

9.4 *

7.6

5.4

8.4

9.2

77.3*

78.5

80.1

77.3

78

41.6

37.5

36.3*

42.3

38.7

OH 262

OH 265

OH 285

OH 286

OH 305

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WHEAT AND MILLING DATA

LAB	ធ	ENTRY		MILLITAR	BOV TMIS		; (
Š				OUAL ITY BCORE	QUAL I TY SCORE	CUMBINED OUALITY SCORE	EST.	FLOUR	ST.GR. FLOUR YIELD	RED. Passes	FRIABILITY	F. 9. 1.	MILLEBELTY	>
* * *	STANDARD BENCHMARK	Α¥		100 A 105,9A	166 A 169.A	100 A 105 A	62.7 61.6*	89.8 8.6	76.4	~ ~	6. 86. 4. 8	22. 23. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	106.9	
657	ADENA			100 A	100 A	100 A	62.7	29.B	76.4	_	4			
9 6	TYLER		•	.92.6 C	78.3F 70.5F	78, 3F		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	74.40	- -	. 7. G		93.4 *	
968 961	TITAN AMO HO				60.9F	60.9F	62.7	33.6	74.8	~ ~	26.5 26.80	11.4	185.7	
				ָ ה ה	က က က	0 0	62.3	. 34	75.9	~	27.70	11.5	* 7 ° 60 ° 7 ° 1	
2 F	OH 235			83	98. 2B	a 126	61.6*	30.5	76.1	^	98. P	6	5	
498	OH 836			106. 5A 93. 4 C	103. A	163. A	63.1		77.6		29.8	9.6	116.9	
963				97.2 B	69.9F	69.9F	, i i	32 26, 80	70,4	~	27.30	5 :	94.8 #	
900	04 269	· 		109.74	93.60	93.60	64.8	31.9	77.9	. ~	29.3	. u.	163.69 16.63.6	
790				98.1 B	95.18	93.18	61.7*	en M	7.5		4 6			
8	190 HO	-		100.84	69.50	89.50	63.1	33.0	į	· r	ם פיס פיס	11.6	99.3	
676	04 K83			107. PA	113, A	107.A	m,	6	77.5	~	_		116.9	
					ע. מ	97.28	61.8	37.2	9.92	^	29.3	11	164. 5	
			. :					•						
· · ·	STRAIGHT-GRADE FLOUR	RADE FL	aUa.		-									
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LAB NO.	FLOUR	E ×	AWRC	COOKIE DIAMETER CH	TOP	Z								
	R		ι.	5										
*	9.74	gr Pr	48.4	17.89					_					
*	6.9	10 173	51.3*	18.33	1		- .							
657	9.74	39	48.4	17.89	. • -									
929	16.90	. 30	50.3*	17,564										•
7 S	4.61	ים מין מין	21.60 21.60	17. 169	***									
961	9.18	* * *	49.7	17.57*										
66.2	10.8	*64.	48.3	17.87										
663	4.0	. 39	47.9	17.91	_		:							
495	10°01	. 4 1.	100.7	17.04#	* m									
866	11.20	96.	4 6 6	17.82						•				.:
1	9	7	ř	17.0	.									-
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Wheat, m	from Wooster, Ohio, 1983 crop
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Table Z	
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Ç			AILLING QUALITY SCORE	BOX ING COME ITY ECORE	COMBINED CURLITY SCURE	MILLAB. BCORE	TEST MT. KG/H.	WHEAT PROT.	#### ×	2 ×	<u>.</u>	760 PA68	BREAK FLOUR VIELD	FLOUR
?	04268		103.60	1 86. 30	1 04. 30	4.7.1	2 47	•	4	9	•	•	;	,
	STANDARD	٠	3	3	100	163.7	77	3		9) 4	4	
77 48	ADENA		3	200	2	103.7	77	9.6	1.53	4		•		
7 C	CHEBS		185 A	96.3 %	96. W T	119.1	70.3	0.6	3	37.60		•	70.00	7 7 7
解析	01244		107.64	97.3 8	97.3 B	117.0	77.5		1.53	36. 7		•	,	
•	PENCHADAK		10.10.	26. N. W.	96.2 5	118.5	79.3	9.6	1.43	40.0		4	8	7 7/
3 18	C14265	-	24.50	94.8 C	94.0	. 0.3	77.3	6	1.69	44.	16.1	4	7	1
2	OHE06		92.5 C	93	98.50	67.9 *	76.3	7.6		43.8		•	2	74.
÷	CHE34		9.k	98.4 C	_	67.1	76.3	7.6	1.67	9	4-41	. 01	4	1
•	OHES6	-	200	93 C	n	• 16	76.9	2	1.67	4.65	12.1	•	4	73.60
.	OHENS	. •	93.2 C	69.00	•	93.7	76. 5	7.6	1.64	30.8	11.6	•	733.7	74.9
- -	HART		69.7 0	96.00		91.4 *	76.8*	10.3*	1.63	9	18.7	4	34.6	73.50
- 5	OFFRE		94. J C	68.2 D	œ	56.4	77.3	10.3*	1.64	46.9	11.0	•	4.55	75. 6
9 16	Q+26.2	-	87.1 D	96.9 E	_	80.00	75.7*	0	1.63	44.7	13.64	.	39.3	73.80
n	TITAN	-	91.8 C	65.7 D	~	* 9.6%	76.7	9.6	1.65	7.65	12.9	•	36.4	72.0
**	TYLER		102.7A	79.9 F	ø	108.2	77	•	10	39.1	11.6	•	34. 6	7.5
~ 4	OH255		78.0 F	47.1 D	78.8 F	79.1.0	78.8	16.80	1.71*	36.40	13.80	o	31.70	72.70
•	04257		AK. A D	74 F		8	78.3	10.00	744	5	4	4	4	

TRAIGHT-GRADE FLOUR

				-				- 1	-	`.		٠.		٠.				
TOP GRAIN	~	^	~	~	9	**	Ą	٩	9	٠	~	9	'n	•	•	'n	•	£
COOKIE DIOM. CM.	18.67	16.31	16.31	18.7	16.21	18.57	16.25	16.17	16.12	18.32	18.66	18.22	18.26	19.23	18.60	17.690	16.22	17.65*
MICAO MARC *	47.7	46.8	40.0	49.1	40. U	30.6.	51.5	51.4	51.5		49.4	26.7	Se. 30	30. 6•	51.3.	49.60	49.6	8 . 4.
ADJ.	3	5	16	50	2	50	46	, , 1	95	25	53	7.0	16	6	÷	2	73	*
3 ≠ 13.	.36	. 36	.36	. 33	. 37	36.	0 1.	410	0	.37	*6D ·	%.	. 39	014.	٠٣.	50	. 37	.30
# ×	9.1	7.0	9. %	0.0	7.	0.3	7.7	7.0	7.4	9.0	9.1	9.9		'n,	٠.		9.3	
2 5 5 .	141	•	96	E	6	•	=	===	=	<u>.</u>	24-	497	<u> </u>		2	\$	16.	2

Exhibit E

Statement of the Basis of Applicant's Ownership

The originating four-way cross, early line evaluation, selection, reselection, purification, testing, and final multiplication were all performed by the applicant breeder (Dr. H. N. Lafever) or his technical assistants on the property of The Ohio State University, Ohio Agricultural Research and Development Center utilizing funds provided for such research. Ownership of the variety shall remain with The Ohio State University, Ohio Agricultural Research and Development Center, however, through The Ohio State University Research Foundation, exclusive rights to produce, promote, and market this variety have been granted, by contract, to the Agricultural Genetic Research Association.